

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
25 March 2004 (25.03.2004)

PCT

(10) International Publication Number  
**WO 2004/024165 A1**

(51) International Patent Classification<sup>7</sup>: **A61K 31/66**,  
31/405, A61P 35/00, A61K 45/06

[AU/AU]; 11 Albion Street, South Yarra, Victoria 3141  
(AU).

(21) International Application Number:  
PCT/EP2003/009972

(74) Agent: **GRUBB, Philip**; Novartis AG, Corporate Intellectual  
Property, CH-4002 Basel (CH).

(22) International Filing Date:  
8 September 2003 (08.09.2003)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,  
GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LT, LU, LV, MA, MD, MK, MN, MX, NI, NO, NZ,  
OM, PG, PH, PL, PT, RO, RU, SC, SE, SG, SK, SY, TJ,  
TM, TN, TR, TT, UA, US, UZ, VC, VN, YU, ZA, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0220885.8 9 September 2002 (09.09.2002) GB

(84) Designated States (*regional*): Eurasian patent (AM, AZ,  
BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE,  
BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,  
IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).

(71) Applicant (*for all designated States except AT, US*): **NO-  
VARTIS AG** [CH/CH]; Lichtstrasse 35, CH-4056 Basel  
(CH).

**Published:**

- with international search report
- before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

(71) Applicant (*for AT only*): **NOVARTIS PHARMA GMBH**  
[AT/AT]; Brunner Strasse 59, A-1230 Vienna (AT).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **BAULCH-  
BROWN, Cindy, Maree** [AU/AU]; 38 Teatree Drive,  
South Morang, Victoria 3752 (AU). **SPENCER, Andrew**

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: COMBINATION THERAPY COMPRISING A BISPHOSPHONATE AND A HMG-COA REDUCTASE INHIBITOR

(57) **Abstract:** A pharmaceutical composition for treatment of malignancies, in particular multiple myeloma (MM), comprises in combination a bisphosphonate, e.g. zoledronic acid or a salt or ester, and an HMG-CoA reductase inhibitor for simultaneous, sequential or separate use. Also provided is a method of treating a patient suffering from a malignant disease comprising administering to the patient an effective amount of a bisphosphonate and an effective amount of an HMG-CoA reductase inhibitor.



WO 2004/024165 A1